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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,765	09/25/2003	Se Kit Yuen	AGUP030218-JML	9705
7590 11/10/2004			EXAMINER	
Dr. Arthur King Ma 1030 Coronado Drive Arcadia, CA 91007			PHAM, MINH CHAU THI	
			ART UNIT	PAPER NUMBER
			1724	

DATE MAILED: 11/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/672,765

Applicant(s)

YUEN, SE KIT

Examiner

Minh-Chau T. Pham

Art Unit

1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**Specification**

The abstract of the disclosure is objected to because legal phraseology "comprising" is used in the abstract. Correction is required. See MPEP § 608.01(b).

**Claim Rejections - 35 USC § 103**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Sham et al (6,464,760 B1) or Hak (6,494,940 B1).

Sham et al discloses an air purifier comprising a housing (17) having air inlet (14) and air outlet (1), a fan (9) drawing air into the inlet (14) through a ultraviolet radiation tube (6) an out of housing through air outlet (1), an electric circuit (2, col. 5, line 19 through col. 6, line 5) connected to and controlling the radiation tube, a switch (15) on housing (17) with a plug and electric cord (see Fig. 5) to receive electricity therefrom, and fences (18 and 19) keeping ultraviolet radiations from radiating beyond the housing to protect the user's eyes. Hak discloses an air purifier comprising a housing (12) having a plurality of air inlets (36) and a plurality of air outlets (37), a fan (74) drawing air into the inlets (36) through a ultraviolet radiation tube (86) an out of housing through air outlets (37), an air aggregator (33) provided between the fan and the housing, an electric circuit (162, col. 8, lines 49-63) connected to and controlling the radiation tube, a switch (168) on housing (12) with a plug (178) and electric cord (176) to receive

electricity therefrom, a high negative voltage fiber (102) connected between the ultraviolet radiation tube and the air outlet, and fences (160) keeping ultraviolet radiations from radiating beyond the housing to protect the user's eyes. Hak further discloses the ultraviolet radiation tube can generate 254 nm circuit (col. 7, lines 2-14). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide an air purifier as taught by either Sham et al or Hak to provide a portable air sterilization and filtration device for effective removing contaminants from the ambient atmosphere.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Yang et al (6,797,044 B2) disclose an air filter device.
- LaFerriere et al (6,797,042 B2) disclose a pyramid air cleaner.
- Tillman, Jr. (6,783,578 B2) discloses an air purification unit.
- Goebel et al (6,730,141 B2) disclose a device for removing gaseous pollutants from ambient air.
- Palestro et al (6,497,840 B1) disclose an ultraviolet germicidal system.
- Parsa (6,585,809 B1) discloses a continuous gas separation in an open system.
- Harris (6,680,028 B1) discloses a portable air purifier apparatus.
- Bigelow (6,221,314 B1) discloses an air actinism chamber apparatus.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**Minh-Chau Pham**  
**Patent Examiner**  
**Art Unit : 1724**  
**November 8, 2004**